FILE NOTATION.		
Fotored in NID File Location Map Pinned Card Indexed	Checked by Chief Copy N 1 D to Field Office Approval Letter Disapproval Letter	
OW WW TA	Location Inspected Bond released State of Fee Land	
Driller's Log / - 8 - 5 8 Electric Logs (No.) 3 E	OGS FILED GR GR-N M Sonic Others	icro

Igrecover and a constitution of a

Charles.

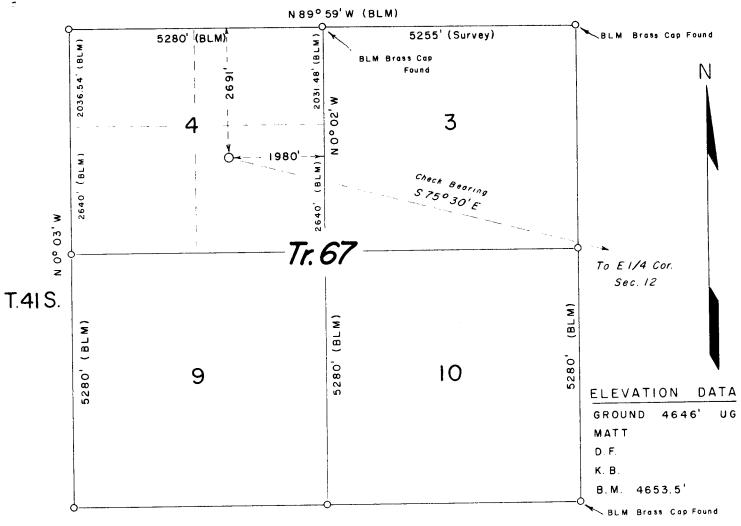
UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

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	Tribal	tonto
Allottee .		
Lease No.		503-242

Budget Bureau No. 42-R359.4,

DONDKI NO	TICES AND RE	PORIS ON WE	LLS
IOTICE OF INTENTION TO DRILL	SUBSEQU	ENT REPORT OF WATER SHUT-OFF	
OTICE OF INTENTION TO CHANGE PLANS		ENT REPORT OF SHOOTING OR ACID	l l
OTICE OF INTENTION TO TEST WATER SHU		ENT REPORT OF ALTERING CASING.	
OTICE OF INTENTION TO REDRILL OR REF	PAIR WELL SUBSEQU	ENT REPORT OF REDRILLING OR R	EPAIR
OTICE OF INTENTION TO SHOOT OR ACIDI		ENT REPORT OF ABANDONMENT	i
OTICE OF INTENTION TO PULL OR ALTER		IENTARY WELL HISTORY	
OTICE OF INTENTION TO ABANDON WELL.			
(INDICATE ABO)	VE BY CHECK MARK NATURE OF RE	PORT, NOTICE, OR OTHER DATA)	
		July 2	, 19_ _
Mole Hill II No is located	2691 ft. from line	and 1960 ft. from E	line of sec.
5E 4 (4 Sec. and Sec. No.)	418 208 (Twp.) (Range)	SLBM (Meridian)	
Mides	San Juan	Utah	
(Field)	(County or Subdivision)	(State or	Territory)
1. Delli 11" hole to	1150 12. ting at 1150 12 with to 5700 12. dustion is obtained	250 sacks posse mix a supplementary con	and 100 sack
4. If commercial pro- will be insued, o regulations.		SCHOOL IN SCHOOLS	e with U.S.C.
4. If commercial pro- will be insued, o regulations.	urface formation is	Alica Married a con	oroned 7-3-57.
4. If considerated provided pr	rface formation is	the Merison.	proved 7-3-57.
4. If consumerial prowing will be insued, or regulations. Sull understand that this plan of work must Shell Off Co.	rface formation is	the Merison.	proved 7-3-57.
4. If commercial provided will be issued, or regulations. Surface of the standard of the standard sta	t receive approval in writing by the	the liberison. **A **Geological Survey before operation	orowed 7-3-57.
4. If conservate provide will be insued, or regulations. Sull understand that this plan of work must ompany Shell Oil Company	t receive approval in writing by the supersy	the Merison.	orowed 7-3-57.

.. 23E. S.L.M.



REFERENCE POINT DATUM -

1" x 2" stakes set at 10' N.,S.,E., & W. of Loc.
1" x 2" stake and 3' flag set at 350' E., 165' W., & 178' S. of Loc.
1" x 2" hub and 10' flag set at Loc. being 2691' S., and 1980' W. of the NE Cor. of Sec. 4, T. 41 S., R. 23 E., SLM.

A cross chiseled in sandstone ledge bears North 240' from Loc.

for RP and BM.
Elevations hereon are in reference to triangulation station "Pete", checked into our elevation circuit in the Recapture Creek Field.

This is to certify that the above plat was prepared from field notes of actual surveys made under my supervision, and that the same are true and correct to the best of my knowledge and belief.

John A. Kroeger, Reg. L.S. Utah Reg. No. 1648

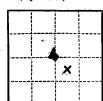
Drawn By: Ritter
Checked By: +0/K
Date: 6/29/57

SHELL OIL COMPANY

Scale I" = 2000'

LOCATION OF MOLE HILL No. 1

Form 9-331 b (April 1952)



(SUBMIT IN TRIPLICATE)

UNITED STATES DEPARTMENT OF THE INTERIOR **GEOLOGICAL SURVEY**

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matan Ag	Bricy	* * * * * * * * * * * * * * * * * * *
Allottee _	Tribal	lants
Leave No	14-20-6	03-242

Budget Bureau No. 42-R359.4.

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO TEST WATER SHUT-OFF	NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL SUBSEQUENT REPORT OF REDRILLING OR REPAIR SUBSEQUENT REPORT OF ABANDONMENT SUPPLEMENTARY WELL HISTORY.	NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO SHOOT OR ACIDIZE SUBSEQUENT REPORT OF ABANDONMENT SUPPLEMENTARY WELL HISTORY.	NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO PULL OR ALTER CASING	NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR
NOTICE OF INTENTION TO ABANDON WELL	NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT
	NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY
	NOTICE OF INTENTION TO ABANDON WELL		
		(

			actify to		19
Well No. 15 loca	ated 2691 ft.	from line	and 1980 ft.	from $\stackrel{E}{\blacksquare}$ line of	sec4
5E 4	418	23E	SLIBM		
(¼ Sec. and Sec. No.)	(Twp.)	(Range)	(Meridian		
Wildont	Sen J	ien.		Utah	
(Field)	(Co	unty or Subdivision)		(State or Territory))

The elevation are the derivatives above the test is 4646 ft. (approx. ground)

DETAILS OF WORK

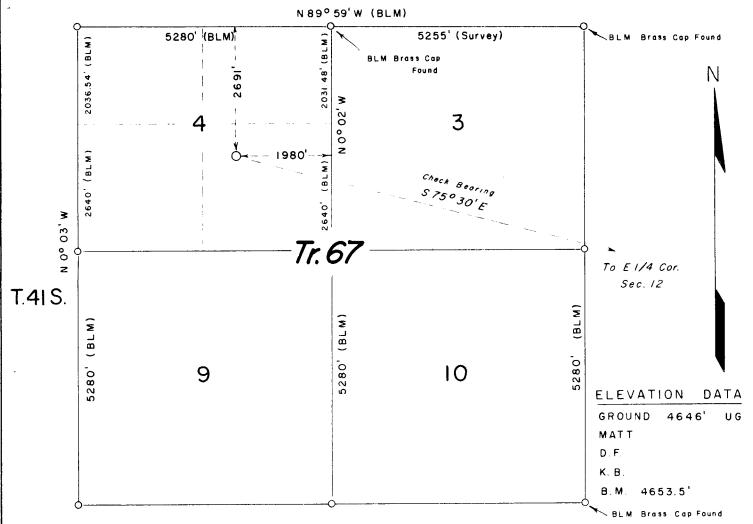
(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cement-ing points, and all other important proposed work)

- 1. Drill 11" hole to 1150'±.
 2. Cement 8-5/8" casing at 1150'± with 250 sacks posso mix and 100 sacks construction coment.
- 3. Drill 7-7/8" hole to 5700't.
- 4. If commercial production is obtained a supplementary completion notice will be issued, otherwise, plug and abandon in accordance with U.S.G.S regulations.

Surface formation is the Morrison.

i understand t	that this plan of work must receive approval in writing b	y the Geological S	urvey perore operations may be commenced.
Company	Shell Oil Company		
Address	108 North Behrend Avenue		. 0
	Farmington, New Mexico	Ву	BW Shepard
		Title	B. W. Shepard Exploitation Engineer

3E. S.L.M.



REFERENCE POINT DATUM -

1" x 2" stakes set at 10' N.,S.,E., & W. of Loc.
1" x 2" stake and 3' flag set at 350' E., 165' W., & 178' S. of Loc.
1" x 2" hub and 10' flag set at Loc. being 2691' S., and 1980' W. of the NE Cor. of Sec. 4, T. 41 S., R. 23 E., SLM.

A cross chiseled in sandstone ledge bears North 240' from Loc.

for RP and BM.
Elevations hereon are in reference to triangulation station "Pete", checked into our elevation circuit in the Recapture Creek Field.

This is to certify that the above plat was prepared from field notes of actual surveys made under my supervision, and that the same are true and correct to the best of my knowledge and belief.

John A. Kroeger, Reg. L.S. Utah Reg. No. 1648

Drawn By: Ritter
Checked By: + 1/2
Date: 6/29/57

SHELL OIL COMPANY

Scale I" = 2000'

LOCATION OF MOLE HILL No. 1

Shell Oil Company 108 North Behrand Avenue Farmington, New Mexico

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Mole Hill 1, which is to be located 2691 feet from the north line and 1980 feet from the east line of Section 4, Township 41 South, Range 23 East, SIBM, San Juan County, Utah.

The proposed location of this well does not comply with Rule C-3(b), General Rules and Regulations and Rules of Practice and Procedure, of the Oil and Gas Conservation Commission, State of Utah; nor has information been furnished for an unorthodox location as required by Rule C-3(c) of said rules and regulations.

Therefore, before approval can be given for the drilling location of this well, it will be necessary for you to file a new notice of intention to drill in compliance with Rule C-3(b), or if an unorthodox location is necessary, a request for such spacing must be made as required by Rule C-3(c).

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FRIGHT SECRETARY

CBF: cn

cc: Phil McGrath/ Jerry Long U.S.G.S. Farmington, New Mexico Shell Oil Company 108 North Behrend Ave Farmington, New Mexico

Attn: B. W. Shepard

Centlemen:

With regards to our telephone conversation of this date, please be advised that, insofar as this office is conserned, approval to drill Well No. Mole Hill 1 2691 feet from the north line and 1980 feet from the east line of section 4, Township 41 South, Range 23 East, SLEM, San Juan County, Utah, is hereby granted.

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

CLEON B FRIGHT SECRETARY

CBF: on

oc: Phil McGrath, District Eng USGS Farmingon, New Mexico

FOFI (A)	pril 19	52)	
	×		

UNITED STATES DEPARTMENT OF THE INTERIOR **GEOLOGICAL SURVEY**

Approval expires 12-31-60. Indian Agency
Allottee Tribal Lends
Loase No. 14-20-603-242

(State or Territory)

NOTICE OF INTENTION TO DRILL	SUBSEQU SUBSEQU SUBSEQU SUBSEQU SUBSEQU SUPPLEM	IENT REPORT OF WATER SHUT-OFF IENT REPORT OF SHOOTING OR ACIDIZING IENT REPORT OF ALTERING CASING IENT REPORT OF REDRILLING OR REPAIR. IENT REPORT OF ABANDONMENT	*
(INDICATE ABOVE BY CHECK No. #1 is located 2691 ft		PORT, NOTICE, OR OTHER DATA) August 6 and 1910 ft. from $\begin{bmatrix} E \\ E \end{bmatrix}$ line	

The elevation state elevation state from the control is 4646 ft. (Approx. ground)

San Jaan (County or Subdivision)

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

(Spudded 7-24-57)

7-27,28-57 Ran and comented 8-5/8", 32#, J-55 casing at 1079' with 200 sacks Posmix and 175 sacks treated coment. Good returns to surface. Flanged up and waited on coment. Pressure tested BOP and casing with 700 psi. for 15 minutes, OK.

I understand	I that this plan of work must receive app	proval in writing by the Geological Survey before operations may be commenced.
Company	Shell Cil Company	
Address	101 South Behrend	
	Farmington, New Mexico	By B W Shepard
		B. W. Shepard Title Exploitation Pagineer

UNITED STATES DEPARTMENT OF THE INTERIOR

índian As	mey Mawaje
Allottee _	Tribal Lands
I assa Na	14-20-603-242

SUNDRY OTICE OF INTENTION TO DRILL OTICE OF INTENTION TO CHANGE POTICE OF INTENTION TO REDRILL CONTICE OF INTENTION TO SHOOT OR OTICE OF INTENTION TO PULL OR ADDITICE OF INTENTION TO ABANDON	PLANS ER SHUT-OFF OR REPAIR WELL R ACIDIZE ALTER CASING	SUBSEQUENT R SUBSEQUENT R SUBSEQUENT R SUBSEQUENT R SUBSEQUENT R	EPORT OF WATER SHUT-OFF EPORT OF WATER SHUT-OFF EPORT OF SHOOTING OR ACIDIZING EPORT OF ALTERING CASING EPORT OF REDRILLING OR REPAIL EPORT OF ABANDONMENT	NG
(INDICAT	TE ABOVE BY CHECK MAR	K NATURE OF REPORT,	NOTICE, OR OTHER DATA)	
			August 6	, 19 <u></u>
(½ Sec. and Sec. No.) Wildens		(Range)	(Meridian)	
(Field)	•	y or Subdivision)	(State or Terri	tory)
ne elevation SPAR-ASSA				
	DETA	AILS OF WORK		udding jobs, cement-
	DETA o objective sands; show sing points, and all	AILS OF WORK		udding jobs, cement-
(Spudded 7-24-57) 27,28-57 Ran and see and 175 sa	DETA DETA	AILS OF WORK izes, weights, and lengt other important prope , 32, J-55 e	hs of proposed casings; indicate mosed work)	200 sacks Fo
(Spudded 7-24-57) -27,28-57 Ran and sea and 175 sa and valted	DETA DETA	AILS OF WORK izes, weights, and lengt other important prope , 32, J-55 e	hs of proposed casings; indicate mosed work) asing at 1079 with returns to surface.	200 sacks Fo
(Spudded 7-24-57) -27,28-57 Ran and sea and 175 sa and valted	DETA DETA	AILS OF WORK izes, weights, and lengt other important prope , 32, J-55 e	hs of proposed casings; indicate mosed work) asing at 1079 with returns to surface.	200 sacks Fo
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-27,28-57 Pan and cand 175 sa and waited 15 minutes	DETA pobjective sands; shows ing points, and all mented 8-5/8", leks treated con cement. po OK.	izes, weights, and lengt other important property, 32%, J-55 ement. Good	ths of proposed casings; indicate mosed work) asing at 1079* with returns to surface, at BOP and casing a gical Survey before operations m	200 sacks Fo Flanged up with 700 pmi.
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Farmington, New Mexico Title Exploitation Engineer

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Indian Ag	ency .	.Ne:	taje.	
Allottee _	Tr	l ka i	La	de.

COUNTY OF THE PLANS WILL WIL	SUBSEQUENT SUBSEQUENT SUBSEQUENT SUBSEQUENT SUBSEQUENT SUBSEQUENT SUPPLEMENTA NATURE OF REPORT (Range) I LAN OF SUBSEQUENT SUBSEQU	REPORT OF WATER S REPORT OF SHOOTING REPORT OF ALTERING REPORT OF ABANDON RY WELL HISTORY NOTICE, OR OTHER E SEPTEM (Meridian)	HUT-OFF	, 19 57
OTICE OF INTENTION TO DRILL OTICE OF INTENTION TO CHANGE PLANS OTICE OF INTENTION TO TEST WATER SHUT-OFF OTICE OF INTENTION TO REDRILL OR REPAIR WELL OTICE OF INTENTION TO SHOOT OR ACIDIZE OTICE OF INTENTION TO PULL OR ALTER CASING. OTICE OF INTENTION TO ABANDON WELL (INDICATE ABOVE BY CHECK MARK N MOLE H111 Il No. #1 is located 2691 ft. from No. #1 (Twp.) Wildcat (Field) (County of Kelly Bushing to elevation of the Educated Lagr above sea lever to mames of and expected depths to objective sands; show size ing points, and all ot the state of the	SUBSEQUENT	REPORT OF WATER S REPORT OF SHOOTING REPORT OF ALTERING REPORT OF ABANDON RY WELL HISTORY NOTICE, OR OTHER E SEPTEM (Meridian)	HUT-OFF	, 19 57
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Mole H111 ell No. #1 is located 2691 ft. from W 4 418 (W Sec. and Sec. No.) (Twp.) Wildcat Sec. No.) Wildcat (Field) (County of Kelly Bushing above sea lev DETAIL ate names of and expected depths to objective sands; show size ing points, and all ot	SUBSEQUENT SUPPLEMENTA NATURE OF REPORT (Name) (Range) Juan or Subdivision) rel is 4670	REPORT OF ABANDON RY WELL HISTORY , NOTICE, OR OTHER E Septem 1980 ft. fro SIBM (Meridian)	m line of	, 19 57
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is located 2691 ft. from No. #1 is located 2691 ft. from No. #1 (18 Sec. and Sec. No.) (Twp.) Wildcat (Field) (County of the shamish floor above sea level at the names of and expected depths to objective sands; show size ing points, and all ot the shamish floor in the shamish floor above the sands; show size ing points, and all ot the shamish floor in the sha	(Range) Display (Range) Display (Range) Rel is 4670 f	(Meridian)	Utah	
(Field) Kelly Bushing e elevation of the shamish fleer above sea lev DETAIL the names of and expected depths to objective sands; show size ing points, and all of	or Subdivision) vel is		(State or Territory))
DETAIL the names of and expected depths to objective sands; show size ing points, and all of		ft.		
OST #1 5539-5560 Initial shut in			ngs; indicate mudo	ding jobs, cement
drilling mud. ISIP 1250, IFP 100,	dead at en	d of 2 hours	. Rec. 10	1 hour f: 00'(0.5 bb)
		•		

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company

Shell 011 Company

Address 101 South Behrend

Farmington, New Mexico

By Shepard

Title Exploitation Engineer

U. S. GOVERNMENT PRINTING OFFICE

Fori (A)	n 9-8 pril 19	831 b 52)	
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UNITED STATES DEPARTMENT OF THE INTERIOR **GEOLOGICAL SURVEY**

Indian Agency . Novajo
Allotton Tribal Lands
Loaso No. 14-20-603-242

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF
	!	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.
		SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL.		SUBSEQUENT REPORT OF REDRILLING OR REPAIR.
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL		

			September 18,	, 19 57
Nole H111 Well No. #1 is lo	cated 2691 ft	. from \mathbb{R}^{N} line an	d 1980 ft. from line of	sec4
NV 4	418	2 3 E	SLBM	
(¼ Sec. and Sec. No.)	(Twp.)	(Range)	(Meridian)	
Wildont		San Juan	Utah	
(Field) Kelly The elevation of the elevation	Bushing	a level is 4670	(State or Territory)

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

DET #1 5539-5560 Initial shut in 30 minutes. 2 hour flow period; 1 hour final shut in. Faint blow decreesing to dead at end of 2 hours. Rec. 100 (0.5 bb1) drilling mud. ISIF 1250, IFF 100, FFF 150, FSIF 1250, HP 2600.

I understan	d that this plan of work must receive approval in writing	by the Geological Survey before operations may be commenced.
Company	Shell Oil Company	
- •	101 South Behrend	
***	Farmington, New Pexico	By BW Shapord
		By Barbard B. W. Sheperd Title Fuploitation ingineer

	(April 1952)				
			×		

Form 9-331 b

(SUBMIT IN TRIPLICATE)

UNITED STATES DEPARTMENT OF THE INTERIOR

Indian Agency
*
Allottee Tribal Lands

SUNDRY NOTICES AND REPORTS ON WELLS

GEOLOGICAL SURVEY

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING.	SUPPLEMENTARY WELL HISTORY.
NOTICE OF INTENTION TO ABANDON WELL	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

		***********	September 19	, 19 .57
Pole Fill Well No	is located 2691 ft. f	rom $\begin{bmatrix} N \\ \blacksquare \end{bmatrix}$ line an	d 1980 ft. from (E)	line of sec.
HW &	41 S	23 E	SLEM (Meridian)	
(¼ Sec. and Sec. No.)	(Twp.)	(Range)	(Meridian)	
Wildcat	San Juan		Utah	
	elly bushing	ty or Subdivision)	(State or '	Perritory)
The elevation of the d	above sea l	evel is 4670.5	ft.	
	DETA	AILS OF WOR	K	

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Status: Total Depth - 5701' Casing - 8 5/8" at 1079" 7 7/8", 1079 to Total depth Hole Size

Proposed Work:

- 1. Place plugs through open end drill pipe as follows:
 - a. 5350' with 35 sacks cement (5250-5350)
 - b. 4500' with 35 sacks cement (4400-4500)
 - c. 2400' with 35 sacks cement (2300-2400)
 - d. 1088' with 60 sacks cement (shoe of surface casing)
- 2. Feel for top plug.
- 3. Place 10 sock cement plug at surface, install marker and abandon in accordance with USES regulations.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company	CALLL GARANY	
Address	101 Sehrend	
	Farmington, New Sexico	By So Shepard
		Title Exploitation Engineer

Form 9-331 b (April 1952)

(SUBMIT IN TRIPLICATE)

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

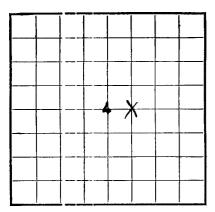
Indian Agency
Allottee Tylbel Lands
Lease No14-20-603-24

SUNDRY NOTICES	AND RE	PORTS ON WELL	s
NOTICE OF INTENTION TO DRILL	SUBSEQUE	NT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		NT REPORT OF SHOOTING OR ACIDIZIN	, ,
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		NT REPORT OF ALTERING CASING	į.
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	1 11	NT REPORT OF REDRILLING OR REPAIL	1
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	1 4	NT REPORT OF ABANDONMENT	1
NOTICE OF INTENTION TO PULL OR ALTER CASING	1	NTARY WELL HISTORY.	i
NOTICE OF INTENTION TO ABANDON WELL	w		
(INDICATE ABOVE BY CHECK M	MARK NATURE OF REPO	ORT, NOTICE, OR OTHER DATA)	
		September 19	, 19.57.
Well No. 111 is located 2021 ft.	(Range)	SLik (Meridian)	: of sec4
Wildcat Sam Juan	i	Ütah	
(Field) (Con K elly bus hing	unty or Subdivision)	(State or Territ	ory)
(State names of and expected depths to objective sands; sho ing points, and status: Total Depth - 5701. Casing - 5 5/8" at 1 Fole Size 7 7/8", 107	0791	lengths of proposed casings; indicate m proposed work)	udding jobs, cemen
roposed work:		•	
1. Fluce plugs through open of a. 5350' with 35 seeks cember 4500' with 35 sacks cember 2. Feel for top plug.	ent (5250-53 ent (4400-45 ent (2300-24	50) 00) 00)	
3. Place 10 s ck cement plug a accordance with 51 E regula	et surface, . ations,	instell marker and ebe	andon in
I understand that this plan of work must receive approv	al in writing by the G	ieological Survey before operations ma	ay be commenced.
Company TELL HE CHEANY		·	
Address 101 : Behrend	man de sel Se	.e	
Farmington, lev Zexico		By Di Shiper	/

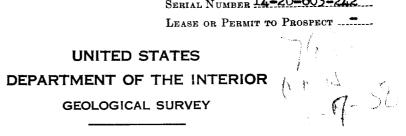
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Exploitation ingineer

Form 9-38)



U. S. LAND OFFICE Window Rock, Ariz. SERIAL NUMBER 14-20-603-242



LOG OF OIL OR GAS WELL

LOC	ATE: WELL	. CORREC	TLY							
Compa	ng Shel	1 011 0	ompany			$\mathbf{Address}$	101 S. Behre	and, Far	mingto	n. N.M.
Lessor	or Tract .	Tribal	Lands			Field	Wildcat	State	Utah	L
WelfN	e H1].1	#1 _{Sec}	T.415	R.23 Ē M	eridian	SLBM	Cou	nty San .	Juan	
Locatio	n 2691	ft. (\$ 0	f . <i>N</i> Line	and 1989	$\mathbf{t}. \left\{ egin{matrix} \mathbf{E}. \\ \mathbf{x} \end{array} ight\}$	of <u>E</u>	Line of Sec. 4		Eleva	tion 4637.5 K
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so far a	s can be	determin	ed from all	arrailable n	abrana		BW 41	<i>(</i> -	9	
Date	Novembe	r 20, 1	95 7		Ü			•		neer
Th	e summa	ry on thi	s page is for	r the condi	tion of	the well	at above date.			
Comme	er ced d ri l	ling Jul	y-24	,	19- 57 -	$\operatorname{Finish}\epsilon$	d drilling Septe	ember 19)	, 19. 57
				OIL OR G						
						gas by G)				
•						•	fromNone			
,							from			
No. 3,	from		to			No. 6,	from	to	·	
				IMPORT	-					
•							fromNone			
No. 2,	f101n		to				from	to) -	
				CA	SING	RECOR	D i Great i i juli		4.3	
Size casing	Weight per foot	Threads inch	per Make		1 '		Cut and pulled from	Perfor From—	To-	Purpose
-5/8"	32	8	- : : : : : : : : : : : : : : : : : : :	1079	B	iker				Surface
केंद्रिकेट देखें स्टब्स्ट्रिकेट	ল চুটিটিটেল অনুমান কম	etain the s or too goe	म्बर्ग सम्बद्धाः स्टब्स्	រីខណៈ <u>ក្រាស់ ក្រកួត</u> ព្រះ ព្រះស្រី (ក្រកួតព្រះ	ाः । । । । । । । । । । । । । । । । । । । 	160 mell 5. 5110 of 11	ર મરામાં લોમાનમાં સિવ્યન્ ટ પંજાદેશ પક ાને મહતું છે	are trate to the	6,	e anderstendenderstenden
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				HISTORY	OL C	ar or t	ere kierr	1 4905; S	1. 3. 60V(FNH)	2 O ABRE CHEFOR
	w: sr.2500-3444									
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Size casing	Where s	et	Number sacks (of cement	Me	thod used	Mud gravity	Ar	nount of r	nud used
8-5/8	1079	-20	D-pezze #	1× 1/50	Disp	lacemen	6			
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Heavir	ıį; plug—				Ţ	_				
Adapte	ersMat	erial			. Size					

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FOLD | MARK

LEASE OR PERMIT TO PROSPECT Serial N. Werr C.S. DAND OFFICE

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GEOLOGICAL SURVEY DEPARTMENT OF THE INTERIOR

UNITED STATES

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Heaving plug-	Material		្រសព	: []		Depth set
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CORE FROM.

SHELL OIL COMPANY

WEEK ENDING		
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AREA OR FIELD	Wild	Cat	Area	
COMPANY	Shell	L		

	CORI	ES EXAM	INED BY	LEASE AN	LEASE AND WELL NO. Mole Hill #1					
NO.	FROM	то	RECOV- ERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	INDIC	- GAS		
1	5361	5412	51 '		1					
<u>-L</u>	5361	5362	11	Limestone, light tan, III-F-MA.			see D	62C 4		
	5362	5363	1,1	Limestone, tan, IVF-LA, sandy in part, with fossile fragments.		Ì				
	750~	1000	'	trace fluorescence on 60% calcareous filled fracture.						
	5363	5364	19	Limestone, tan, I VF-LA, rare brachiopod fragments, stylolitic,						
		1	'	trace fluorescence on vertical hairline fractures.	1					
	5364	5365	1 1 8	Limestone, as above, sandy, no fractures.						
	5365	5367	21	Limestone, tan, I VFA, rare brachiopod.		ļ				
	5367	5368	1 7 1	Limestone, as above, very fine, pyritic inclusions.	İ					
	5368	5369	11	<u>Limestone</u> , like 65-67, stylolitic.						
	5369	5371	21	Limestone, as above, not stylolitic.						
	5371	5373	2'	Limestone, as above, rare brachiopod, stylolitic.	1					
	5373	5375	21		1					
	2272	כז ככן	\ ~'\	Limestone, tan, III VF-LA, appears recrystallized with many crystalline calcareous fusulinid.						
	5275	5276	18			ļ				
	5375	5376		Limestone, light brown, I VFA, with rare crinoid column.	İ					
	5376	5378	21	Limestone, tan, I VF-MA, sandy.						
	5378	5379	11	Limestone, tan, I VFA.	İ					
	5379	5380	78	<u>limestone</u> , light brown, I VFA, with abundant brachiopod, crinoid and						
	2000	E004	1 .	bryoz fragments.						
	5380	5381	11	Limestone, light brown, I VFA, slightly sandy, with occasional bryozoa.	Ì					
				trace spotty bright yellow fluorescence.		Ì				
	5381	5383	21	<u>Limestone</u> , tan, I VFA, sandy.						
	5383	5390	71	<u>Limestone</u> , as above, not sandy.						
	5390	5394	41	<u>Limestone</u> , tan, I - III VFA, with occasional fossile fragments.						
	5394	5396	21	<u>Limestone</u> , tan, I VFA, silty - sandy.						
	5396	5397	111	Limestone, tan, I VFA, with abundant crinoid fragments.						
	5397	5399	21	Limestone, as above, with rare brachiopod.	1					
	5399	5402	31	Limestone, brown, I VFA, very fusulinid.	İ					
	5402	5403	11	Limestone, dark brown, I VF-LA, with abundant small brachiopods.						
	5403	5404	11	Limestone, dark brown, I VFA, with thin (1") black shale parting.		1				
			1	5% spotty bright yellow fluorescence and cut fluorescence.						
	5404	5405	11	Limestone, dark brown, I VFA, stylolitic, recrystallized in part, with						
				occasional brachiopod.						
	5405	5406	1 1 8	<u>Limestone</u> , brown, I VF-MA, as above.]				
	5406	5407	1 11	Limestone, brown, I VFA, silty, with black cherty nodules.						
	5407	5408	1 11	Limestone, brown, I-III VFA, sandy, with rare fossile fragments.		1				
				75% large spotty pale-bright yellow Fluorescence, CF, strong petroleum						

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SHELL OIL COMPANY

Mole Hill

Wildcat

San Juan, Utah (COUNTY)

DRILLING REPORT
FOR PERIOD ENDING

8-18-57

(SECTION OR LEASE)
T415 R23E

(TOWNSHIP OR RANCHO)

	1		(TOWNSHIP OR RANCHO)
DAY	DEPTHS		
57	FROM	то	REMARKS
	·		Location: 2691 S and 1980 W of NE Corner, Section 4, T41S, R23E, SLBM, San Juan County, Utah.
			Elevations: KB 4637.50 GR 4625.85 DF 4635.75
7-24 to 7-27	0	1095	Spudded 12:01 AM 7-24-57. Ran and cemented 8-5/8", 32#, J-55 casing at 1079' with 200 sacks pozzo mix and 150 sacks cement treated with 2% calcium chloride. Good cement returns to surface. Flanged up.
7-28	1095	- Gasta	Waited on cement.
7-29 to 7-30	1095		Repaired washed out water pump (San Juan River) and lines.
7-31	1095	1566	Drilled 471%. Pressure tested casing and BOP with 700 psi for 30 minutes, OK. Located top of cement 1059%. Lost circulation between 1224-1566%?, regained with lost circulation material.
8-1 to 8-5	1566	2418	Drilled 852°.
8-6 to 8-7	2418 -	2655	<u>Drilled 237</u> . Waited on water and repaired water pump.
8-8 to 8-10	2655	3289	Drilled 634'.
8-11 to 8-12	3289	3345	Drilled 56%. Waited on water, repaired rig.
8-13 to 8-18	3345	3921	<u>Drilled 576%</u>
	COI	TA NOITIDN	BEGINNING OF PERIOD

CONDITION AT BEGINNING OF PERIOD							
	HOLE		CASING SIZE	DEPTH SET			
SIZE	FROM	то					
	1 1		1	'			
			1				
	1						
]		<u> </u>				
DRILL SIZE	PIPE		_				

Mole Hill WELL NO. 1

Wildcat

DRILL PIPE SIZES___

San Juan, Utah

(COUNTY)

DRILLING REPORT FOR PERIOD ENDING

9-20-57

(SECTION OR LEASE)
S R23E

			(TOWNSHIP OR RANCHO)				
DAY	DEPTHS						
57	FROM	то	REMARKS				
8–19	3921	3948	<u>Drilled 27°</u> . Waited on water, installed new water pump.				
8-20 to 8-28	3948	4733	Drilled 785°. Lost 1 cone, drilled on junk with 2 bits, ran magnet. (4011 - 4115°).				
8-29 to 8-31	4733	4750	<u>Drilled 17'.</u> Shut down - roads washed out.				
9-1 to 9-6	4750	5277	Drilled 527'.				
9-7 to 9-10	5277	5457	<u>Drilled 82¹. Cored 95.5¹.</u> Core #1 5361-5411. Recovered 50¹, Core #2 5411-5457.5 Recovered 40.5¹.				
9-11	5460	a a	Repairing rig, (depth correction).				
9-12 to 9-17	5460	5656	Cored 196°. Core #3 5460-5510, recovered 47.5°. Core #4 5510-5560 recovered 50°. Core #5 5560-5612 recovered 52°. Core #6 5612-5656 recovered 41°. Ran Induction - Electrical Survey and Microlog.				
9-18	5656		DST #1 5540 - 5660, Cook testers, 2 - 6-5/8" packers at 5540 and 5535, 2 pressure recorders 1 Amerada at 5653 and 1 Amerada at 5658', 1/2" subsurface bean, 3/4" surface bean, tool initially shut in 30 minutes, open 2 hours, final shut in 1 hour. Used 31' (0.15 bbls.)air cushion. Very faint blow decreasing to almost dead at end of test. Recovered 100' (0.5 bbl.) mud, salinity 6600 - 11,302 (t) ppm NaCl, salinity before test 10,065 (t) ppm NaCl. ISIP 1250, IFP 100, FFP 150, FSIP 1250 (still rising), HP 2600.				
9-19	5656	5705	Drilled 551. Ran Gamma Ray Neutron Log and Velocity Survey (DEPTH CORRECTION)				
9-20	5705	TD	Plugged as follows: With drill pipe at 5350 plugged with 35 sacks cement. With drill pipe at 4500 plugged with 35 sacks cement. With drill pipe at 2400 plugged with 35 sacks cement. With drill pipe at 1085 plugged with 60 sacks cement.				
		IDITION AT E	BEGINNING OF PERIOD				
SIZE	HOLE FROM		ING SIZE DEPTH SET				
VIAB	FROM	TO					

. 2-50 PRINTED IN U. S. A.

SHELL OIL COMPANY

Mole Hill

DRILLING REPORT
FOR PERIOD ENDING

(SECTION OR LEASE) T41 8

Wildcat San Juan, Utah

9-21-57

oan J	count		9-21-57	$\frac{T4/S}{(\text{TOWNSHIP OR RANCHO})}$		
day 57	DEF	тн в	REMARKS	RKS		
9 – 21			Ran in located plug at 1050', waited Installed marker with a 10 sack cemen (Released rig 10:00 P.M. 9-21-57).			
			Checked BOP Daily			
			Mud Summary Wt 9 - 10.6#/gal. Vis 36-60 sec. WL 4.5 - 12.2 cc FC 1 - 7/32 pH 11-13			
	!					
			O t	tone Tourton Prof. 7.1 from Co.		
	COI	IDITION AT	Contract Driller	stor: Exeter Drilling Co. s: T. W. Keen T. F. Manion		
	HOLE	GA	ING SIZE \ DEPTH SET	H. A. Sheppard		

DRILL PIPE 4-1/2"

H. A. Sheppard

	Exa	mined by		
·	FROM	то	%	SHOWS UNDERLINED SAMPLES LAGGED NOT
	3670	3680	ر 50	Limestone, tan, I VFA.
			50	Shale, as above.
	3680	3690	100	Sandstone, light brown, very fine - siltstone, calcareous, anhydrite inclusions, micaceous.
	3690	3700	100	Siltstone, light green, calcareous, anhydrite inclusions.
	3700	3800	4.6	Skip.
	3800	3810	100 .	Siltstone, light brown, calcareous, slightly micaceous, Samples good.
	3 8 10	3820		Skip.
	3820	3830	70	Limestone, tan - dark brown, I VFA.
		_	30	Siltstone, as above.
	3830	3850	100	Siltstone, as above, anhydrite inclusions.
	3850	3860	100	Shale, dark brown, slightly calcareous, slightly sandy, waxy.
	3860	3870	100	Shale, as above, calcareous, sandy.
	3870	3880	100	Limestone, tan - light brown, I VFA, sandy, with sandstone partings.
	3880	3890	100	Limestone, as above, very sandy.
	3890	3910	100	Sandstone, tan - pale purple, very fine - fine, finely sorted.
	3910	3920	100	Siltstone, as above.
	3920	3930	50	Limestone, medium brown, I VFA.
			50	Shale, red, calcareous.
	3930	3940	100	Limestone, as above.
	3940	3960	80	Shale, as above.
	•		20	Limestone, tan, I VFA, with chert 3940-50'.
	3960	3980	100	Shale, red, mottled purple, calcareous.
	3980	4000	100	Shale, variegated, red, green, gray, purple, very soft.
Maga Ali	4000	4020	100	Shale, variegated, red, brown, green, gray, calcareous in part, with a limestone parting, white, I VFA.
	4020	40 50	100	Shale, red, slightly silty, calcareous, with limestone parting, tan, I VFA in 40-50.
	4050	4060	15.8	Skip.

Well Mole Hill #1

4060 to 4535

Examined by

			to
FROM	то	%	SHOWS UNDERLINED SAMPLES LAGGED NOT
4060	4080	100	Shale, brownish red, slightly silty, slightly calcareous, with occasional small anhydrita inclusions, Samples poor,
4080	4120	100	Shale, as above, without anhydrite inclusions.
4120	4150	100	Siltstone, brown, calcareous, Samples poor.
41 50	4180	100	Shale, red, - brownish red, slightly calcareous.
4180	4230	100	Shale, variegated, reddish brown, tan, purple, soft, slightly calcareous.
4230	4240	100	Shale, brownish red, slightly calcareous.
4240	4260	100	Shale, brown, slightly silty, calcareous.
4260	4310	100	Shale, as above, Samples very poor. Limestone partings, tan, I VFA, in 90-4300.
4310	4320	100	Shale, variegated, reddish brown, light green, light gray, purple, slightly calcareous.
4320	4330	100	Shale, as above, calcareous.
4330	4350	100	Shale, brown, silty in part, calcareous.
4350	4360	1	Skip.
4360	4400	100	Siltstone, light brown, calcareous, Samples good.
4400	4420	100	Shale, brown, silty, calcareous.
4420	4450	100	Limestone, tan, I/II VFA, slightly sandy, I LA in part. (TOP HERMOSA)
4450	4460	40	Siltstone, light gray, calcareous.
		60	Limestone, as above.
4460	4490	100	Limestone, tan, III FA.
4490	4500	100	<u>Limestone</u> , light gray, III FA, (Samples still good.)
4500	4510	40	Limestone, tan, I VFA.
· · · · · · · · · · · · · · · · · ·		60	Shale, brown, calcareous. Samples poor.
4510	4515	100	Shale, brown, calcareous.
4515	4520	60	Shale, as above.
		40	<u>Limestone</u> , tan - white, I VFA.
4520	4535	100	Shale, as above. Samples very poor.

Exo	imined by		
FROM	ТО	%	SHOWS UNDERLINED SAMPLES LAGED NOT
453 5	4540	30	Limestone, tan, I VFA.
		70	Shale, as above.
4540	4545	100	Shale, as above.
4545	4550	40	<u>Limestone</u> , white - tan, I VFA.
		60	Shale, as above. (Samples still very poor)
4550	4555	100	Shale, as above.
4555	4560	100	Limestone, tan, I VFA, sandy - very sandy. Samples fair.
4560	4565	100	Limestone, white, I VFA, very sandy, grades to sandstone, very calcareous in part.
1848	1500		
4565	4570	40	Limestone, tan, I VFA.
		60	Shale, brown, slightly calcareous. Samples poor.
4570	4585	100	Limestone, tan, III VF-FA.
4585	4610	100	Limestone, white, I VF-LA, with occasional cherty fragments.
4610	4615	100	Shale, varicolored, brown, brown, red, gray, calcareous in part. (Samples still poor)
4615	4620	100	Shale, brown, calcareous.
4620	4625	100	Shale, light green, silty in part, calcareous.
4625	4630	40	Shale, as above.
	Dur	60	Limestone, tan - light green, III F - I VFA, silty.
4630	4635	100	<u>Limestone</u> , as above.
4635	4640	60	Limestone, as above.
	95 95 - 1 - 1 30 - 1 - 10	40	Siltstone, brown, calcareous.
4640	4680	100	Siltstone, as above. (Samples still poor)
4680	4685	100	Limestone, white, I LA, sandy in part.
4685	4700	100	Siltstone, brown, calcareous, grades to shale, brown, very silty in part.
4700	4720	3	Skip.
4720	4725	100	Shale, light - medium brown, soft, slightly calcareous.
4725	4760	100	Shale, dark brown, silty in part, slightly calcareous.

Examined by	to	Well	Mole Hill #1
	to	Field or Area	

FROM	то	%	SHOWS UNDERLINED SAMPLES LAGGED
4760	4770	40 60	Limestone, white, IvFA, very sandy. Shale, as above.
4770	4790	100	Shale, brown, light green, gray, red, calcareous, in part (Samples poor)
4790	4850	100	Limestone, white-tan, IvF-IIIFA, sandy in part. (Samples very poor)
4850	4855	100	Limestone, tan, IIIFA, sandy.
4855	4865	100	Shale, brown, calcareous.
4865	4870	100	Skip
4870	4880	100	Limestone, tan-white, IIIvF=FA, with occasional brown translucent chert fragments.
4880	4885	60 40	Shale, brown, calcareous. Limestone, white-tan, IvFA.
4885	4890	100	Limestone, as above, sandy in part.
4890	4895	100	Limestone, tan, IvFA, sandy, with rare ostracod. (Samples poor).
4895	4900	100	Limestone, tan, IvF-LA, sandy in part, occasional foram.
4900	4925	100	Limestone, tan-white, I-IIIvFA, sandy in part. (Samples very poor)
4925	4935	100	Shale, varigated, brown, green, gray, silty in part, calcareous in part.
4935	4945	100	Limestone, tan, I-IIIvFA.
4945	4960	100	Limestone, tan-light brown, IIIvF-FA.
4960	4985	100	Limestone, tan-light gray, brown, I-IIIvFA. (Samples good)
4985	4990	100	Limestone, dark gray, IIIvFA, very argillaceous, may be very calcareous, shale in part.
4990	4995	100	Limestone, as above, dark gray, brown in part, IIIFA in part.
4995	5000	100	Limestone, as above, tan-dark gray brown.
5000	5010	100	<u>Limestone</u> , tan-light brown, IIIFA.
50 10	5015	100	<u>Limestone</u> , tan-light gray, IIIFA.
5015	5025	100	<u>Limestone</u> , white-light tan, IvFA, sandy in part with milky, translucent chert.
5025	5030	100	Limestone, light tan-light brown, I-IIIvFA, (Samples good).
5030	5035	100	Limestone, light tan-light brown, I-IIIvFA.

Examined by			5035 to 5280 to	Well <u>Mole Hill #1</u> Field or Area <u>Wildcat</u>	
FROM	ТО	%	SHOWS UNDERLINED	SAMPLES LAGGED NOT	
5035	5050	100	<u>Limestone</u> , medium - dark fragments and spines.	grayish brown, I - III VFA, with brachiodpod?,	
5050	5065	100	Limestone, dark grayish k in part, with rare br	orown, I - III VFA, argillaceous, pyritic	
5065	5085	100		and limestone as above, (apparently inter- yellow fluorescence and cut fluorescence.	
5085	5100	100	<u>Limestone</u> , tan - white, I	[VFA.	
5100	5120	100	<u>Limestone</u> , tan - light br	rown, I - III VFA.	
5120	5125	100	<u>Limestone</u> , tan - light gr	ay, III VFA.	
5125	5135	100	Limestone, as above, beco	oming III FA. (Samples still good)	
5135	5140	100	<u>Limestone</u> , white, I VF -	III FA, very sandy.	
5140	5145	40	Limestone, as above.		
₩ -		60	Shale, medium - dark gray	y, calcareous.	
5145	5 155	100	Shale, as above.	. · •	
5155	51.60	60	Shale, as above.	• •	
	, to:	40	Limestone, white, I VFA,	sandy in part.	
5160	5165	100	Shale, medium gray, calca	areous in part.	
5165	5170	100	<u>Limestone</u> , tan - light b	rown, I VF - MA.	
5170	5175	100	Siltstone, pale greenish	gray, micaceous, calcareous.	
5175	5185	40	Siltstone, brown, micace	ous, calcareous.	
		60	Limestone, light brown,	I VFA.	
5185	5195	100	Limestone, tan, I III VF.	A.	
5195	5205	100	<u>Limestone</u> , light grayish	brown, III VF - FA.	
5205	5225	100	Limestone, tan, I VFA.		
5225	5235	60	Limestone, as above.		
		40	Shale, medium - dark gra	y, calcareous in part.	
5235	5240	100	Limestone, brown, I VFA,	with tan - brown, translucent cherty fragments.	
£2/0	よっよ り		Chin		

Exam	nined by .		5280 to _5360 to	Weil Mole Hill #1 Field or Area Wildcat
FROM	то	%	SHOWS UNDERLINED	SAMPLES LAGGED NOT
5280	5295	100	<u>Limestone</u> , tan - light	brown, I VFA, sandy in part.
5295	5300	100	Limestone, tan, I VFA,	with occasional tan cherty fragments.
5300	5305	100	Limestone, tan, I VFA,	sandy.
5305	5320	100	Limestone, as above, no	t sandy.
5320	5325	100	Limestone, tan - light cherty fragments.	brown, I VFA, with light brown, translucent
5325	5330	100	Limestone, light grayis	h brown, I VFA.
5330	5345	100	Limestone, as above, w	th chert as above.
5345	53 5 0	70	Limestone, tan, I VFA.	
	.40	30	Shale, dark gray, calca	reous.
53 5 0	5360	100	<u>Limestone</u> , tan - light	brown, I VFA, sandy.

PD 4-B	8-50
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CORE FROM_

SHELL OIL COMPANY

WEEK	ENDING	4.		
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AREA OR FIELD.	Wildcat	
COMPANY	Shell	

	COR	ES EXAM	INED BY	LEASE ANI	WELL	NO.Mol	e Hill #1
NO.	FROM	то	RECOV- ERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIO OIL— GAS
			ERED		<u> </u>		CORE OR DI
1	5408 5409 5410 5411	5409 5410 5411 5412	1 ¹ 1 ¹ 1 ¹ 1 ¹	Limestone, brown, III VF-FA-B ₂ , shows as above. Limestone, dark brown, III VF-FA, very fusulinid, with abundant brachiopod and crinoid. 2-4% bright yellow spotty fluorescence and cut fluorescence Limestone, tan - light brown, I LA, with rare fusulinid and bryozoa. Limestone, dark brown, III VF-FA, argillaceous, fusulinid. 1% bright yellow spotty fluorescence and cut fluorescence.	d		See Desc
							·

4-B	8.50

WEEK ENDING.	
CORE FROM	то

AREA OR FIELD	Wildcat	
COMPANY	Shell	
	34-3 17233 //	

CORES	EXAMINED	BY	

CORE	ES EXAMII	INED BY.	LEASE ANI	D WELL	NOMo	le HiJ	<u>.1 #1</u>	
FROM	то	RECOV- ERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL		IND	CORE DICATIONS OIL— GAS	
	 	<u>+ </u>		 '	<u> </u>	+	E OR DITCH	
5412 5416 5422	545 7. 5 5416 5422 5429 5430	40.5° 4' 6' 7'	Limestone, medium brown, I F-MA, with abundant fusulinid. Limestone, dark brown, III FA, very argillaceous, with abundant fusulinid. Limestone, medium brown, I VF-FA, with crinoids and fusulinid, black cherty nodules at 5425. Limestone, dark brown, III VFA, argillaceous, with crinoid stems.			See	Descript	ion
	5446	161	Limestone, medium brown, I-III VF-FA, argillaceous, with 2" cherty	1	1			
5446	5452.5	6.5	nodules at 5433. <u>Limestone</u> , as above, with abundant irregular small black cherty nodules.	<u>'</u>				
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4-B	8-50

WEEK ENDING	
CORE FROM	то

CORE RECORD

AREA OR FIELD_	Wildcat		
COMPANY		,+	
			11.4

CORES EXAMINED BY

LEASE AND WELL NO Mole Hill #1

FROM	то	RECOV- ERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBQL	OBSERVED .	CORE INDICATIONS OIL—GAS
						CORE OR DITCH
5460	5510	47.5				See:
5460	5461	18	Limestone, black, I VFA, very argillaceous, with rare crinoid button.			Descript
5461	5462	1 1	Limestone, tan - light gray, I VFA.			
5462	5464	21	Limestone, medium grayish brown, I-III FA, argillaceous, with abundant fusulinids at 62-63	i.		
	5464.5		Shale, black.	1		
	5465.5		Limestone, medium brown, III - I FA, with calcite veins.	1		
5465.5		1.59				
	5472	5!	Limestone, medium gray, III F-MA, very argillaceous - argillaceous, silty.			
	5473	18	Shale, medium gray, very silty, micaceous.			
	5474	11	Limestone, medium gray, III F-MA, argillaceous, very silty.		ŀ	
5474		19	Shale, medium gray, very silty, micaceous, calcareous.			
5475	5477	2 8	Siltstone, medium gray, very calcareous, argillaceous, with patches I VFA limestone.			
5477	5478	1 8	<u>Limestone</u> , medium brown, I VFA, with clusters course calcite crystals, with light brown oil stain.			
5478	5479	11	Limestone, light brown, I VF-FA, with brachiopod fragments.	1		k
5479	5484.5	5.51	Limestone, light grayish brown, IF-MA, slightly argillaceous, with abundant fusulinids.			
54845	5488	3.5	Limestone, light gray, III FA, very dolomitic, petroleum odor on fresh core.		1	
5488	5489	1 9	Limestone, light gray, III F-B5, with 50% light blue fluorescence, pale cut fluorescence.			
548 9	5490	13	Limestone, light gray - brown, III-I F-LB, + trace C, dolomitic, 50% bright blue yellow fluorescence, moderate yellow cut fluorescence.			
5490	5491	1'	Dolomite, tan - light gray, III F B ₁₋₂ , + trace C.	}		
5491	5492	7.	Limestone, tan - light gray, III F B ₁₋₂ dolomitic. 50% bright blue			
2.4.			Limestone, tan - light gray, III F B ₁₋₂ , dolomitic, 50% bright blue yellow fluorescence, pale yellow cut fluorescence.			
5492	5493	11	Limestone, light gray, I-III VF-FA.	1		
5493	5494	11	Limestone, tan, III FA, dolomitic.	1		
5494	5495	11	Limestone, as above, very dolomitic.	1		-
5495	5496	1 1	Dolomite, dark brown - black, III FA, argillaceous TOP PARADOX 54961			
5496	5507	11 1	Shale, black, slightly silty calcareous. Bed contacts gradational, no evidence of dip.			
		a				
				1		

•	4-B	8.50

WEEK ENDING	·		 - -	
CORE FROM		то_	 	

AREA OR FIELD_	Wildcat	
COMPANY	Shell.	
	Molo Hill #1	

CORFS F	YAMINED	RY		

FROM	то	RECOV- ERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED Dip	CORE INDICATIONS OIL— GAS
		ERED				CORE OR DITCH
510	5560	501			-	See_
	5541	31 1	Shale, black, slightly calcareous.			Descrip
	5542.5		Limestone, medium grayish brown, III VFA, argillaceous.			
	5544.5	21	Dolomite, light brownish gray, III MA, calcareous, very silty, 3-5° dip			
			from thin irregular interbeds.			
544.5	5548	3.5	Siltstone, medium gray, calcareous, argillaceous - grading to very fine sand,			
			micaceous.			
	5549	11	Siltstone, as above, very argillaceous.			
49	5550	11	Shale, medium gray.			
	5551	11	Dolomite, medium brown, III VF-FA, 20% bright yellow fluorescence (spotty).		1	
551	5552	11	Limestone, medium gray, I-III FA, oil bleeding along very thin tight		-	
			horizontal fractures at 50.5-51.			
552	5560	81	Anhydrite, gray, with thin irregular black shale partings.			
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WEEK ENDING	
CORE FROM	то

AREA OR FIELD_	Wildcat
COMPANY	Shell
	Mole Hill #1

CORE	S EXAMI	NED BI	LEASE AN	ID WELL	NO. ==0=\	e Hill #1
FROM	то	RECOV- ERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS OIL—GAS
]	ļ ļ				CORE OR DITCH
560	5612	521				See
	5561.7		Anhydrite, gray, massive.			Descripti
	5570	8.3	Dolomite, medium brown, III FA. Very pale blue fluorescence on fractured			Descripos
, C ; 6 1			surface at 69-70.			
70	5571	18	Dolomite, as above, calcareous.			
	5578	71	Siltstone, gray, calcareous.			
	5579	1 1	Shale, light gray, calcareous.		1	
	5588	71	Limestone, tan, I VFA, sandy, abundant fusulinids at 85-88.			
	5590	21	Limestone, tan, I VFA, with abundant fusulinids and irregular gray			
),,	~	shale partings.			
590	5591	11	Limestone, tan, I VFA, with irregular gray shale partings.	ŀ	ļ	
	5593	21	Limestone, tan, I VFA, with clusters white anhydrite crystals and			
		~	gray shale partings.	ļ		ļ
593	5594	11	Limestone, tan, I VFA, with round anhydrite inclusions.			
	5595	11	Shale, medium gray, calcareous, with inclusions I VFA, tan, limestone.			
	5596	19	Dolomite, tan, III FA, with round anhydrite inclusions.	1		
	5597.5	I I	Limestone, tan, III FA, with round anhydrite inclusions.			
	5598	0.5	Limestone, tan, I-III VF-FA, with trace C. 40% yellow fluorescence,	İ		
,,,,,			pale cut fluorescence. Abundant small smooth brachiopods, few			
			fusulinids.			
598	5599	11	Limestone, as above, B ₁ + C ₁ , 20% fluorescence, and cut fluorescence			
,,,		' 1	as above.	}		
599	5600	1 1	Limestone, tan, I FB1 + C1 + D1, 30% dull yellow fluorescence, very			1
///		' [pale yellow cut fluorescence.		1	
500	5601	11	Limestone, tan, III FA, with trace C and D, 5% fluorescence as above,			
		• [stylolitic.		1	
501	5602	11	Limestone, as above, fluorescence as above.			
	5603	11	Limestone, as above, 40% pale yellow fluorescence, very pale yellow	- [1	
		'	cut fluorescence, abundant small smooth brachiopods.			
603	5604	11	Limestone, tan, III FB ₁ + C ₂ + D ₁ , appears brecciated, with abundant		1	
			brachiopods and fossile fragments, large crystals and plates of			
			anhydrite; 45% fluorescence and cut fluorescence, as above.		1	
604	5605	11	Limestone, as above, 25% fluorescence and cut fluorescence as above.			
	5606	11	Limestone, light gray - tan, I VF-LA, with abundant course anhydrite			
		'	crystals.			

WEEK ENDING	
CORE FROMTO	

AREA OR FIELD.	Wildcat	
COMPANY	Shell	

CORI	ES EXAM	INED BY	LEASE ANI	WELL	NO Mole	Hill #1
FROM	то	RECOV- ERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS OIL— GAS
		ļ				CORE OR DITCH
5612	5656	411				None
5612	5617	51	Dolomite, medium brown, III F-MA, at 14-16, abundant brachiopod fossils.]	
5617	5619	21	Dolomite, tan, III MA, anhydritic.			
5619	5620	1!	Dolomite, tan, III F-M B ₁ , with inclusions of anhydrite, light oil stain.			
5620	5621	11	Dolomite, tan, III FA, very calcareous, with irregular gray shale partings.			
5621	5622	11	Dolomite, as above, B ₁ + trace C.			
5622	5624	21	Delomite, as above, B ₁ + trace C., with patches brown III MA dolomitic, anhydritic.			
5624	5625	1'	Dolomite, medium brown, III F-MA, anhydritic.		İ	
5625	5626	11	Dolomite, medium brown, very calcareous, with patches light gray shale.		ĺ	
5626	5627	11	Dolomite, mottled tan and medium brown, III FA, very calcareous, with	Ì]	
5627	5629	21	rare brachiopod mold and anhydrite inclusions.			
5629	5633	4'	Dolomite, medium brown, III FA, with rare anhydrite inclusions. Dolomite, as above, very calcareous, with rare brachiopod.			
5633	5634	11	Limestone, medium brown, III FA, very dolomitic, with rare brachiopod.			
5634	5637	31	Dolomite, medium brown, calcareous, with rare crinoid stems.		ŀ	
5637	5638	11	Dolomite, medium brown, III FA, calcareous, argillaceous.			
5638	5639	1'	Shale, black, very dolomitic, with abundant productid brachiopods.			
5639	5653	141	Shale, black, slightly calcareous.			
1			Note: Drillers measured T. D. 6550'			
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WEEK ENDING
CORE FROMTO

AREA OR FIELD.	Wildcat	
COMPANY	Shell	

CORES	EXAMINED	BY

CORE	S EXAM	INED BY	LEASE A	ND WELL	NO. MOL	e Hill #1
FROM	то	RECOV- ERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS OIL—GAS
		1 1				CORE OR DITCH
5606	5607	1 9	<u>Limestone</u> , light gray, I VFA, trace C and D, recemented with course anhy- drite crystals. <u>20% yellow fluorescence</u> , strong yellow cut fluores- cence.	į		See Description
5607 5608	5608 5609	18	Limestone, as above, 10% fluorescence and cut fluorescence, as above. Limestone, as above, 10% fluorescence and cut fluorescence, as above,		:	
5609	5610	18	only trace D porosity. <u>Limestone</u> , tan-light gray, I VFA to III MA, due to presence of anhydrite crystals.		[A
5610 5611	5611 5612	1 ° 1	Limestone, light gray, I VFA, with inclusions course anhydrite crystals. Dolomite, tan, III FA, anhydritic.			
						e e
			•			

Mole Hill #1 5660 to 5701 Field or Area SAMPLES LAGGED NOT TO SHOWS UNDERLINED FROM 5665 5660 Skip. Shale, black, calcareous. 5670 100 5665 Shale, as above. 5675 50 5670 Shale, light gray, calcareous. 25 Limestone, tan, I VFA. 25 Siltstone, gray, calcareous. 5675 5680 100 5680 5685 50 <u>Anhydrite</u> Limestone, brown, I VFA. 50 Anhydrite 5690 25 5685 Limestone, as above. 50 Shale, light gray, calcareous. 25 75 Siltstone, gray. 5690 5695 Dolomite, brown, III FA. 25

5700

5701

5695

5700

100

100

Anhydrite

Salt

Exan	nined by		3100 to 3670 Well Mole Hill # 1to Field or Area Wildcat
FROM	ТО	%	SHOWS UNDERLINED SAMPLES LAGGED NOT
3100	3110	100	Shale, orange, calcareous, silty.
3110	3130	100	Siltstone, orange, calcareous.
3130	31 50	100	Shale, orange, calcareous.
31 <i>5</i> 0	3200	100	Shale, orange, mottled green, moderately calcareous, silty.
3200	3300	100	Shale, as above, very calcareous.
3300	3320	100	Shale, reddish brown, very calcareous, anhydritæ, silty.
3 320	3340	100	Shale, light green.
3340	3350	100	Shale, as above, anhydrite inclusions.
3 350	3360	20	Shale, as above.
		80	Siltstone, brown, calcareous, micaceous, anhydrite inclusions.
3360	3380	10	Shale, as above.
		90	Siltstone, as above.
3380	3400	100	Shale, brown, calcareous, with anhydrite inclusions.
3400	3410		Skip.
3410	3430	100	Shale, as above.
3430	3470	100	Siltstone, as above, very calcareous.
3470	3480		Skip.
3480	3500	100	Siltstone, as above.
3500	3520	100	Shale, orange and green, calcareous.
3520	3570	100	Siltstone, tan, as above.
3570	3600	100	Sandstone, light brown, very fine siltstone, angular, well sorted, very calcareous, anhydrite inclusions, micaceous.
3600	3610	100	Shale, reddish brown, calcareous, silty, anhydrite inclusions.
3610	3630	100	Siltstone, brown, calcareous, anhydrite inclusions, micaceous.
3630	3640	100	Shale, red, slightly calcareous, slightly sandy.
3640	3650	100	Siltstone, as above.
3650	3670	100	Shale, brown, calcareous, silty, micaceous.

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UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Indian A	rency .Ha.T	Ja
Aliottee .	Tribal	lands
Lease No.	14-20	-603-242
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	SUNDRY N			OKIS ON WELL	
OTICE OF INT	ENTION TO DRILL		SUBSEQUENT	REPORT OF WATER SHUT-OFF	
	ENTION TO CHANGE PLA	NS	1 1	REPORT OF SHOOTING OR ACIDIZII	
	ENTION TO TEST WATER			REPORT OF ALTERING CASING	
TICE OF INT	ENTION TO REDRILL OR	REPAIR WELL	SUBSEQUENT	REPORT OF REDRILLING OR REPAI	R
OTICE OF INT	ENTION TO SHOOT OR A	CIDIZE	SUBSEQUENT	REPORT OF ABANDONMENT	
OTICE OF INT	ENTION TO PULL OR ALT	ER CASING	SUPPLEMENTA	RY WELL HISTORY.	
OTICE OF INT	TENTION TO ABANDON WI	<u>:LL</u>			
	(INDICATE	ABOVE BY CHECK N	MARK NATURE OF REPORT	NOTICE, OR OTHER DATA)	
			Januar	y 14	, 19
Mole		.	(NI)	. (重)	_
ll No	is locat	ed 2591 ft	. from 🚡 line and	1.1980 ft. from $\left\{\begin{matrix} \blacksquare \\ \mathbf{W} \end{matrix}\right\}$ line	e of sec.
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111 0		413	23B	SLEM	
•	and Sec. No.)	413 (Twp.)	(Range)	(Meridian)	
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de elevation	n of the desided	Buching above sea	(Range) San Juan Dunty or Subdivision) a level is 4670 f	(Meridian) (State or Terri	·
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e elevation to names of a independent of	rield) Relly n of the denished and expected depths to o thick: d as follows: noke coment at noke coment at noke coment at the of coment d casing with anno with USG!	DE bjective sands; she ing points, and 4500's 4500's 1085's at 975's 10 sacks (5 regulations)	(Range) Sam Juan Dunty or Subdivision) a level is 4670 f TAILS OF WORI TAILS OF WORI TAILS of weights, and length all other important projections.	(Meridian) (State or Terri t. (State or Terri t. (State or Terri t. (State or Terri t. (State or Terri t. (State or Terri t.	audding jobs, ceme
e elevation to names of a incomen Flugge 35 a 35 a 60 a Found Flugge accord	relation of the demissi	DE bjective sands; she ing points, and 4500's 4500's 1085's at 975's 10 sacks (S regulations)	(Range) Sam Juan Dunty or Subdivision) a level is 4670 f TAILS OF WORI TAILS OF WORI ow sizes, weights, and leng i all other important proj all other important proj const. val in writing by the Geol	(Meridian) (State or Terri t. (State or Terri t. (the of proposed casings; indicate mosed work) (the lied marker and a	audding jobs, ceme

Title Exploitation Profine